

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1498.79	\$14,987.90
Flagger Service	HR	\$10.78	582.12	\$6,275.25
Channelizing Devices	DAY	\$0.79	12304.38	\$9,720.46
Arrow Board, Message Board	HR	\$6.23	1120.63	\$6,981.52
Truck Mounted Attenuator	HR	\$15.94	1.99	\$31.72
Subtotal:				\$37,996.86

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	3044	\$34,701.60
Subtotal:				\$46,694.14

Drainage Items				
Misc. Concrete	CY	\$923.71	21.34	\$19,711.97
15" Pipe	LF	\$22.02	539.21	\$11,873.40
18" Pipe	LF	\$51.44	561.48	\$28,882.53
36" Pipe	LF	\$89.64	14.95	\$1,340.12
48" Pipe	LF	\$106.67	150.96	\$16,102.90
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	12.62	\$26,969.70
Eros. Control Stone	TON	\$71.30	128.38	\$9,153.49
Paved Ditch	LF	\$35.05	80.48	\$2,820.82
Subtotal:				\$97,142.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	5866.7	\$75,445.76
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	4752	\$105,066.72
Asphalt Ty. SM-12.5	Ton	\$37.75	1226.1	\$46,285.28
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY		0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	3300	\$3,399.00
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
			Subtotal:	\$410,570.60

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	64	\$2,822.40
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	11	\$532.51
Right Of Way Monuments	EA	\$84.75	5.72	\$484.77
Guardrail (Composite)	LF	\$13.70	1628.37	\$22,308.67
Guardrail Terminals	EA	\$1,821.11	19.2	\$34,965.31
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	1350	\$28,093.50
Fence (Composite)	LF	\$4.31	860.95	\$3,710.69
Fence Line Braces	EA	\$282.17	2.3	\$648.99
Fence Corner Braces	EA	\$282.62	3.62	\$1,023.08
			Subtotal:	\$94,589.93

Roadside Development				
Seeding (Composite)	LBS	\$13.23	67	\$886.41
Erosion Control Mulch	SY	\$0.61	1613	\$983.93
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
			Subtotal:	\$32,620.53

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Stormwater Management

Stormwater Management Excavation	CY	\$4.90	500	\$2,450.00
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Signals and Signs

Sign Panels	SF	\$24.80	154.75	\$3,837.80
Sign Posts (Composite wood and steel)	LF	\$17.24	240	\$4,137.60
Intersection Signalization (Composite)	EA	\$38,738.90	0.05	\$1,936.95
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management System	EA	\$0.00	0	\$0.00

Subtotal: \$9,912.35

Utilities (Water and Sewer)

Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	1237	\$61,689.19
Sewer Pipe (Composite)	LF	\$46.21	573	\$26,478.33

Subtotal: \$94,576.52

Total: \$826,553.89

add Surveying: \$9,765.54

add Mobilization: \$67,723.96

Estimated Cost per Lane Mile --

GRAND TOTAL: \$904,043.39

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1498.79	\$14,987.90
Flagger Service	HR	\$10.78	582.12	\$6,275.25
Channelizing Devices	DAY	\$0.79	12304.38	\$9,720.46
Arrow Board, Message Board	HR	\$6.23	1120.63	\$6,981.52
Truck Mounted Attenuator	HR	\$15.94	1.99	\$31.72
Subtotal:				\$37,996.86

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	3044	\$34,701.60
Subtotal:				\$46,694.14

Drainage Items				
Misc. Concrete	CY	\$923.71	21.34	\$19,711.97
15" Pipe	LF	\$22.02	539.21	\$11,873.40
18" Pipe	LF	\$51.44	561.48	\$28,882.53
36" Pipe	LF	\$89.64	14.95	\$1,340.12
48" Pipe	LF	\$106.67	150.96	\$16,102.90
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	12.62	\$26,969.70
Eros. Control Stone	TON	\$71.30	128.38	\$9,153.49
Paved Ditch	LF	\$35.05	80.48	\$2,820.82
Subtotal:				\$97,142.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	5866.7	\$75,445.76
Cement Stabilized Aggre #21A	Ton	\$21.72	3432	\$74,543.04
Aggr. No. 21B	Ton	\$22.11	2178	\$48,155.58
Asphalt Ty. SM-12.5	Ton	\$37.75	645.3	\$24,360.08
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	3300	\$3,399.00
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
			Subtotal:	\$600,606.82

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	64	\$2,822.40
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	11	\$532.51
Right Of Way Monuments	EA	\$84.75	5.72	\$484.77
Guardrail (Composite)	LF	\$13.70	1628.37	\$22,308.67
Guardrail Terminals	EA	\$1,821.11	19.2	\$34,965.31
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	860.95	\$3,710.69
Fence Line Braces	EA	\$282.17	2.3	\$648.99
Fence Corner Braces	EA	\$282.62	3.62	\$1,023.08
			Subtotal:	\$66,496.43

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development

Seeding (Composite)	LBS	\$13.23	67	\$886.41
Erosion Control Mulch	SY	\$0.61	1613	\$983.93
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
Subtotal:				\$32,620.53

Stormwater Management

Stormwater Management Excavation	CY	\$4.90	500	\$2,450.00
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Signals and Signs

Sign Panels	SF	\$24.80	154.75	\$3,837.80
Sign Posts (Composite wood and steel)	LF	\$7.25	240	\$1,740.00
Intersection Signalization (Composite)	EA	\$89,734.26	0.05	\$4,486.71
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management System	EA		0	\$0.00
Subtotal:				\$10,064.51

Utilities (Water and Sewer)

Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	1237	\$61,689.19
Sewer Pipe (Composite)	LF	\$46.21	573	\$26,478.33
Subtotal:				\$94,576.52
Total:				\$988,648.78
add Surveying:				\$11,386.49
add Mobilization:				\$80,002.65

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,080,037.91

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	287.73	\$2,877.30
Flagger Service	HR	\$10.78	593.44	\$6,397.28
Channelizing Devices	DAY	\$0.79	14663.62	\$11,584.26
Arrow Board, Message Board	HR	\$6.23	436.6	\$2,720.02
Truck Mounted Attenuator	HR	\$15.94	2.26	\$36.02
Subtotal:				\$23,614.89

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	685	\$7,809.00
Subtotal:				\$19,801.54

Drainage Items				
Misc. Concrete	CY	\$923.71	19.63	\$18,132.43
15" Pipe	LF	\$22.02	746.00	\$16,426.92
18" Pipe	LF	\$51.44	314.25	\$16,165.02
36" Pipe	LF	\$89.64	12.73	\$1,141.12
48" Pipe	LF	\$106.67	122.96	\$13,116.14
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	16.80	\$35,902.61
Eros. Control Stone	TON	\$71.30	67.00	\$4,777.10
Paved Ditch	LF	\$35.05	33.31	\$1,167.52
Subtotal:				\$106,828.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2772	\$60,207.84
Aggr. No. 21B	Ton	\$22.11	4950	\$109,444.50
Asphalt Ty. SM-12.5	Ton	\$37.75	580.8	\$21,925.20
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
			Subtotal:	\$322,162.30

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	528	\$23,284.80
Concrete Curb and Gutter CG-6	LF	\$13.16	2640	\$34,742.40
Concrete Curb	LF	\$11.67	2640	\$30,808.80
Entrance Gutter	SY	\$48.41	88	\$4,260.08
Right Of Way Monuments	EA	\$84.75	15.9	\$1,347.53
Guardrail (Composite)	LF	\$13.70	745.82	\$10,217.73
Guardrail Terminals	EA	\$1,821.11	1.45	\$2,640.61
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1375.32	\$5,927.63
Fence Line Braces	EA	\$282.17	2.03	\$572.81
Fence Corner Braces	EA	\$282.62	2.45	\$692.42
			Subtotal:	\$114,494.80

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development

Seeding (Composite)	LBS	13.23	290.9	\$3,848.61
Erosion Control Mulch	SY	\$0.61	7040	\$4,294.40
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	0.25	\$5,892.60
Watering	UNIT	\$71.80	4.25	\$305.15
Subtotal:				\$45,090.95

Stormwater Management

Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
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Signals and Signs

Sign Panels	SF	\$24.80	539.75	\$13,385.80
Sign Posts (Composite wood and steel)	LF	\$17.24	960	\$16,550.40
Intersection Signalization (Composite)	EA	\$89,734.26	0.165	\$14,806.15
Overhead Signing (Composite)	EA	\$7,443.14	8	\$59,545.12
Roadway Lighting (Composite)	EA	\$54,170.00	0.25	\$13,542.50
Traffic Management System	EA			\$0.00
Subtotal:				\$117,829.97

Utilities (Water and Sewer)

Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	880	\$43,885.60
Sewer Pipe (Composite)	LF	\$46.21	665	\$30,729.65
Subtotal:				\$81,024.25
Total:				\$835,747.55
add Surveying:				\$9,857.48
add Mobilization:				\$68,420.38

Estimated Cost per Lane Mile --

GRAND TOTAL: \$914,025.40

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Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	287.73	\$2,877.30
Flagger Service	HR	\$10.78	593.44	\$6,397.28
Channelizing Devices	DAY	\$0.79	14663.62	\$11,584.26
Arrow Board, Message Board	HR	\$6.23	436.6	\$2,720.02
Truck Mounted Attenuator	HR	\$15.94	2.26	\$36.02
			Subtotal:	\$23,614.89

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	685	\$7,809.00
			Subtotal:	\$19,801.54

Drainage Items				
Misc. Concrete	CY	\$923.71	19.63	\$18,132.43
15" Pipe	LF	\$22.02	746.00	\$16,426.92
18" Pipe	LF	\$51.44	314.25	\$16,165.02
36" Pipe	LF	\$89.64	12.73	\$1,141.12
48" Pipe	LF	\$106.67	122.96	\$13,116.14
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	16.80	\$35,902.61
Eros. Control Stone	TON	\$71.30	67.00	\$4,777.10
Paved Ditch	LF	\$35.05	33.31	\$1,167.52
			Subtotal:	\$106,828.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	3696	\$80,277.12
Aggr. No. 21B	Ton	\$22.11	0	\$0.00
Asphalt Ty. SM-12.5	Ton	\$37.75	0	\$0.00
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	26	\$1,057.68
			Subtotal:	\$460,854.60

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	528	\$23,284.80
Concrete Curb and Gutter CG-6	LF	\$13.16	2640	\$34,742.40
Concrete Curb	LF	\$11.67	2640	\$30,808.80
Entrance Gutter	SY	\$48.41	88	\$4,260.08
Right Of Way Monuments	EA	\$84.75	15.9	\$1,347.53
Guardrail (Composite)	LF	\$13.70	745.82	\$10,217.73
Guardrail Terminals	EA	\$1,821.11	1.45	\$2,640.61
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1375.32	\$5,927.63
Fence Line Braces	EA	\$282.17	2.03	\$572.81
Fence Corner Braces	EA	\$282.62	2.45	\$692.42
			Subtotal:	\$114,494.80

Roadside Development				
Seeding (Composite)	LBS	13.23	290.9	\$3,848.61
Erosion Control Mulch	SY	\$0.61	7040	\$4,294.40
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	0.25	\$5,892.60
Watering	UNIT	\$71.80	4.25	\$305.15
			Subtotal:	\$45,090.95

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Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Stormwater Management

Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
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Signals and Signs

Sign Panels	SF	\$24.80	539.75	\$13,385.80
Sign Posts (Composite wood and steel)	LF	\$17.24	960	\$16,550.40
Intersection Signalization (Composite)	EA	\$89,734.26	0.165	\$14,806.15
Overhead Signing (Composite)	EA	\$7,443.14	8	\$59,545.12
Roadway Lighting (Composite)	EA	\$54,170.00	0.25	\$13,542.50
Traffic Management System	EA			\$0.00

Subtotal: \$117,829.97

Utilities (Water and Sewer)

Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	880	\$43,885.60
Sewer Pipe (Composite)	LF	\$46.21	665	\$30,729.65

Subtotal: \$81,024.25

Total: \$974,439.85

add Surveying: \$11,244.40

add Mobilization: \$78,926.32

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,064,610.56